

Sun SPARC® Enterprise T5120 and T5220 Servers Overview Guide

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Preface

This guide provides an overview of the Sun SPARC Enterprise T5120 and T5220 servers features.

UNIX Commands

This document might not contain information on basic UNIX commands and procedures such as shutting down the system, booting the system, and configuring devices. Refer to the following for this information:

- Software documentation that you received with your system
- Solaris Operating System documentation, which is at

(http://docs.sun.com)

Shell Prompts

Shell	Prompt
C shell	machine-name%
C shell superuser	machine-name#
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#

Related Documentation

The documents listed as online are available at:

(http://docs.sun.com/app/docs/prod/sparc.t5120)

(http://docs.sun.com/app/docs/prod/sparc.t5220)

Application	Title	Part Number	Format	Location
Product Notes	Sun SPARC Enterprise T5120 and T5220 Servers Product Notes	820-2176	PDF	Online
Getting Started	Sun SPARC Enterprise T5120 Server Getting Started Guide	820-4417	Printed	Ships with system
Getting Started	Sun SPARC Enterprise T5120 Server Getting Started Guide (DC)	820-5838	Printed	Ships with system
Overview	Sun SPARC Enterprise T5120 and T5220 Servers Overview Guide	820-2183	PDF HTML	Online
Planning	Sun SPARC Enterprise T5120 and T5220 Servers Site Planning Guide	820-2177	PDF HTML	Online
Installation	Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide	820-2178	PDF HTML	Online
Administration	$Sun\ SPARC\ Enterprise\ T5120\ and\ T5220\ Servers\ Administration$ $Guide$	820-2179	PDF HTML	Online
Service	Sun SPARC Enterprise T5120 and T5220 Servers Service Manual	820-2181	PDF HTML	Online
Safety	Sun SPARC Enterprise T5120 and T5220 Servers Safety and Compliance Manual	820-2182	PDF	Online
Remote Management	Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers	820-6683	PDF HTML	Online

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

■ Documentation (http://www.sun.com/documentation)

- Support (http://www.sun.com/support)
- Training (http://www.sun.com/training)

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Sun SPARC Enterprise T5120 and T5220 Servers Overview Guide, part number 820-2183-12.

Understanding Server Features

These topics describe the features of the Sun SPARC Enterprise T5120 and T5220 servers. The following topics are covered:

- "Server Highlights" on page 2
- "Features at a Glance" on page 4
- "Additional Feature Information" on page 8

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide (DC)
- Sun SPARC Enterprise T5120 and T5220 Servers Site Planning Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers
- Logical Domains (LDoms) software documentation (http://docs.sun.com/app/docs/prod/ldoms)
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

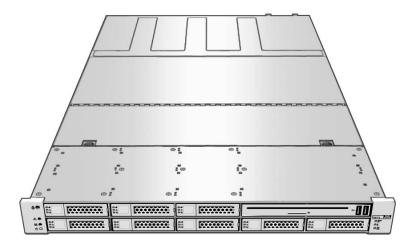
Server Highlights

The Sun SPARC Enterprise T5120 (FIGURE: Sun SPARC Enterprise T5120 Server on page 3) and T5220 (FIGURE: Sun SPARC Enterprise T5220 Server on page 3) servers are scalable, reliable, high-performance, entry-level servers, optimized for enterprise data centers. These servers offer the following key features:

- The UltraSPARC T2 multicore processor with CoolThreads technology for high-throughput and energy savings.
- High levels of system uptime through the processor and memory reliability-availability-serviceability (RAS) features, coupled with redundancy of some systems components, support for hardware RAID (0+1), and the Predictive Self-Healing features of the Solaris 10 Operating System (Solaris OS).
- Both servers come in a space efficient, rack-optimized form factor chassis, 1U for the Sun SPARC Enterprise T5120 server, and 2U for the Sun SPARC Enterprise T5220 server.
- Investment protection with SPARC V9 binary application compatibility and the Solaris 10 OS. The Solaris 10 OS also provides features such as Solaris Predictive Self-Healing, Solaris Dynamic Tracing, and support across UltraSPARC platforms.
- Unified server management though the use of the Integrated Lights Out Manager (ILOM) interface. ILOM integrates and manages CoolThreads and x64 platforms with the same tool set, and in heterogeneous environments, using industry standard element management tools and enterprise frameworks.

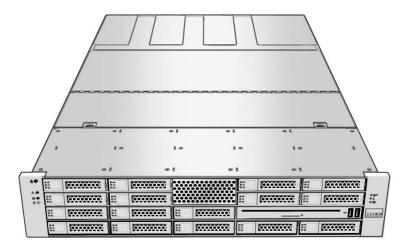
The following figure shows the Sun SPARC Enterprise T5120 server chassis as viewed from the front and top.

FIGURE: Sun SPARC Enterprise T5120 Server



The following figure shows the Sun SPARC Enterprise T5220 server chassis as viewed from the front and top.

FIGURE: Sun SPARC Enterprise T5220 Server



- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide

- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

Features at a Glance

The following table describes in summary form the main features of the Sun SPARC Enterprise T5120 and T5220 servers.

TABLE: Summary of Features

Feature	Description	
Chassis dimensions	T5120: 1 rack unit (1U)	
and rackmounting hardware*	• Width: 425 mm (16.75 in.)	
	• Height: 44 mm (1.75 in.)	
	• Depth: 714 mm (28.13 in.)	
	T5220: 2 rack units (2U)	
	• Width: 425 mm (16.75 in.)	
	• Height: 88 mm (3.49 in.)	
	• Depth: 714 mm (28.125 in.)	
Processor	One UltraSPARC T2 multicore processor with one of the following number of cores:	
	• 4 cores (32 threads); 1.2 GHz	
	• 8 cores (64 threads); 1.2, 1.4, or 1.6 GHz	
Memory	Sixteen FBDIMM slots supporting 2-, 4-, and 8-Gbyte modules	
Slots/Capacity	(maximum capacity of 128 Gbytes of system memory)	

 TABLE:
 Summary of Features (Continued)

Feature	Description	
Internal Hard	T5120:	
Drives*	Up to eight 73-Gbyte, 146-Gbyte, or 300-Gbyte 2.5 inch SAS hard drives (hot-pluggable)	
	Up to four solid-state drives can be used in conjunction with disk-based hard drives for a total of eight hard drive storage units.	
	Integrated hard drive controller supports RAID 0 and RAID 1.	
	T5220:	
	Up to sixteen 73-Gbyte or 146-Gbyte, or 300-Gbyte 2.5 inch SAS hard drives (hot-pluggable).	
	Up to eight solid-state drives can be used in conjunction with disk-based hard drives for a total of sixteen hard drive storage units.	
	Integrated hard drive controller supports RAID 0 and RAID 1. Note - Some T5120 models only support up to four hard drives. Some T5220 models only support up to eight hard drives.	
Optical Media Device	One, slot-loading, slimline DVD drive, supporting CD-R/W, DVD-R/W, DVD+R/W	
Power Supplies	Two hot-swappable power supply units providing N+1 redundancy	
Cooling*	T5120: Four to seven hot-swappable fan modules (two fans per module)	
	T5220: Three to four hot-swappable fan modules (two fans per module)	
Ethernet Ports	Four 10/100/1000 Mbps Ethernet, RJ-45-based, autonegotiating ports (on two separate controllers)	
	Note - 10-Gbit Ethernet ports are available by adding XAUI cards to the I/O expansion slots. For each XAUI card added, one onboard 1-Gbit Ethernet port is disabled.	

 TABLE:
 Summary of Features (Continued)

Feature	Description	
PCI Express Interfaces*	T5120:	
	Three low-profile PCI Express slots with the following slot designated specifications [†] :	
	• One slot – PCIe, 8-lane	
	• Two slots – PCIe 4-lane (alternatively, these slots can be used for 10-Gbit Ethernet by adding Sun XAUI cards)	
	• Up to 5 additional PCIe slots are available using an External I/O Expansion Unit	
	T5220:	
	Six low-profile PCI Express slots with the following slot designated specifications [†]	
	• Two slots – PCIe, 8-lane	
	• Two slots – PCIe, 4-lane	
	• Two slots – PCIe 4-lane (alternatively, these slots can be used for 10-Gbit Ethernet by adding Sun XAUI cards)	
	 Up to 10 additional PCIe slots are available using up to two External I/O Expansion Units 	
	Note - All PCIe cards are installed using supplied riser boards	
USB Ports	Four USB 2.0 ports (2 forward, 2 rear facing).	
Additional Ports	The following connectors are located on the rear of the server: • One RJ-45 serial management port (SER MGT) – the default connection to the service processor	
	 One 10/100 Mbps Ethernet network management port (NET MGT) – connection to the service processor 	
	• One DB-9 serial port – connection to the host	
Remote Management	Onboard Integrated Lights Out Manager (ILOM), with two command sets: • ILOM	
	ALOM CMT compatibility shell (legacy command set)	
	Both command sets are accessible through the RJ-45 serial and 10/100 Mbps Ethernet interfaces.	

TABLE: Summary of Features (Continued)

Feature	Description
Cryptography	Processor-integrated, cyptographic acceleration that supports industry-standard security ciphers
	Refer to the server product notes for information on the minimum version of supported OS and required patches
Operating System	Solaris 10 OS preinstalled on disk 0
	Refer to the server product notes for information on the minimum version of supported OS and required patches.
Other Software	Java Enterprise System
	Logical Domains Manager
	• Sun Studio
	Refer to the server product notes for details about specific versions of the preinstalled software.

^{*} This symbol marks a feature specification that differs between the two servers models.

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Site Planning Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide (DC)
- Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide
- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers
- Logical Domains (LDoms) software documentation (http://docs.sun.com/app/docs/prod/ldoms)
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

[†] PCI-e and PCI-X specifications described in this table list the physical requirements for PCI cards. Additional support capabilities must also be provided (such as device drivers) for a PCI card to function in the server. Refer to the specifications and documentation for a given PCI card to determine if the required drivers are provided that enable the card to function in this server.

Additional Feature Information

- "Chip-Multithreaded Processor and Memory Technology" on page 8
- "Performance Enhancements" on page 9
- "Preinstalled Solaris Operating System" on page 9
- "Hardware-Assisted Cryptography" on page 10
- "Support for Virtualization Through Logical Domains (LDoms)" on page 10
- "Remote Manageability With ILOM" on page 11
- "High Levels of System Reliability, Availability, and Serviceability" on page 12
- "Fault Management and Predictive Self Healing" on page 16
- "Rackmountable Enclosure" on page 16

Chip-Multithreaded Processor and Memory Technology

The UltraSPARC T2 multicore processor is the basis of the Sun SPARC Enterprise T5120 and T5220 servers. The UltraSPARC T2 processor is based on chip multithreading (CMT) technology that is optimized for highly threaded transactional processing. The UltraSPARC T2 processor improves throughput while using less power and dissipating less heat than conventional processor designs.

Depending on the model purchased, the processor has four, six, or eight UltraSPARC cores. Each core equates to a 64-bit execution pipeline capable of running eight threads. The result is that the 8-core processor handles up to 64 active threads concurrently.

Additional processor components, such as L1 cache, L2 cache, memory access crossbar, memory controllers, and the I/O interface have been carefully tuned for optimal performance.

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

Performance Enhancements

The Sun SPARC Enterprise T5120 and T5220 servers running the Solaris 10 OS provide several new performance enhancing technologies with its sun4v architecture and multicore, multithreaded UltraSPARC T2 processor.

Some of these enhancements are:

- A floating point unit (FPU) for each core
- Four independent dual-channel memory controllers that use the latest fully buffered memory technology
- Processor-integrated cyptographic acceleration
- Large page optimization
- Reduction on TLB misses
- Optimized block copy
- Support for Sun's 10-Gbit Ethernet with the addition of XAUI cards

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

Preinstalled Solaris Operating System

The Sun SPARC Enterprise T5120 and T5220 servers are preinstalled with the Solaris 10 OS, and offer the following Solaris OS features:

- Stability, high performance, scalability, and precision of a mature 64-bit operating system.
- Support for over 12,000 leading technical and business applications.
- Solaris Containers Isolate software applications and services using flexible, software-defined boundaries.
- DTrace A comprehensive dynamic tracing framework for tuning applications and troubleshooting systemic problems in real time.
- Predictive Self-Healing Capability that automatically diagnoses, isolates, and recovers from many hardware and application faults.
- Security Advanced security features designed to protect the enterprise at multiple levels.

■ Network Performance – Completely rewritten TCP/IP stack dramatically improves the performance and scalability of your networked services.

You can use the preinstalled Solaris 10 OS, or reinstall a supported version of the Solaris 10 OS from your network, CD, or downloaded copy. Refer to the *Sun SPARC Enterprise T5120 and T5220 Servers Product Notes* for information on the supported OS releases for your server.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

Hardware-Assisted Cryptography

The UltraSPARC T2 multicore, multithreaded processors provide hardware-assisted acceleration of symmetric, asymmetric, hashing and random number generation cryptographic operations as follows:

- Asymmetric algorithms RSA, DSA, Diffie Hellman, and Elliptic Curve cryptography
- Symmetric algorithms AES, 3DES, and RC\$
- Hashing algorithms SHA1, SHA256, and MD5

The Solaris 10 OS provides the multithreaded device driver that supports the hardware-assisted cryptography.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

Support for Virtualization Through Logical Domains (LDoms)

The Sun SPARC Enterprise T5120 and T5220 servers support the use of Logical Domains (LDoms) technology. Through the use of the Solaris OS and the built-in server firmware, and by installing the Logical Domains Manager software, you can virtualize the compute services that run on your server.

A *logical domain* is a discrete, logical grouping with its own operating system, resources, and identity within a single computer system. Each logical domain can be created, destroyed, reconfigured, and rebooted independently, without requiring a power cycle of the server.

You can run a variety of applications software in different logical domains and keep them independent for performance and security purposes.

Each logical domain can be managed as an entirely independent machine with its own resources, such as:

- Kernel, patches, and tuning parameters
- User accounts and administrators
- Network interfaces, MAC addresses, and IP addresses

Each logical domain can interact only with those server resources made available to it. The configuration is controlled using the Logical Domains Manager.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Logical Domains (LDoms) software documentation (http://docs.sun.com/app/docs/prod/ldoms)

Remote Manageability With ILOM

The Integrated Lights Out Manager (ILOM) feature is a service processor that is built into the server, and enables you to remotely manage and administer the server.

The ILOM software is preinstalled as firmware, and initializes as soon as you apply power to the system.

ILOM enables you to monitor and control your server over an Ethernet connection (supports SSH), or by using a dedicated serial port for connection to a terminal or terminal server. ILOM provides a command-line interface and a browser-based interface that you can use to remotely administer geographically distributed or physically inaccessible machines. In addition, ILOM enables you to run diagnostics (such as POST) remotely that would otherwise require physical proximity to the server's serial port.

You can configure ILOM to send email alerts of hardware failures and warnings, and other events related to the server. The ILOM circuitry runs independently of the server, using the server's standby power. Therefore, ILOM firmware and software continue to function when the server operating system goes offline or when the server is powered off. ILOM monitors the following Sun SPARC Enterprise T5120 and T5220 server conditions:

- CPU temperature conditions
- Hard drive status
- Enclosure thermal conditions
- Fan speed and status
- Power supply status
- Voltage conditions
- Solaris watchdog, boot time-outs, and automatic server restart events

In addition to the ILOM CLI and browser interface, you can set up the server to use the ALOM CMT compatibility CLI. The ALOM CMT compatibility CLI provides commands that approximate the ALOM CMT UI that was provided on some previous servers.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers

High Levels of System Reliability, Availability, and Serviceability

Reliability, availability, and serviceability (RAS) are aspects of a system's design that affect its ability to operate continuously and to minimize the time necessary to service the system. *Reliability* refers to a system's ability to operate continuously without failures and to maintain data integrity. System *availability* refers to the ability of a system to recover to an operational state after a failure, with minimal impact. *Serviceability* relates to the time it takes to restore a system to service following a system failure. Together, reliability, availability, and serviceability features provide for near-continuous system operation.

To deliver high levels of reliability, availability, and serviceability, the Sun SPARC Enterprise T5120 and T5220 servers offer the following features:

- Ability to disable individual threads and cores without rebooting
- Lower heat generation, reducing hardware failures
- Hot-pluggable hard drives
- Redundant, hot-swappable power supplies (two)
- Redundant N+1 hot-swappable fan modules

- Environmental monitoring
- Internal hardware drive mirroring (RAID 1)
- Error detection and correction for improved data integrity
- Easy access for most component replacements

Related Information

- "Hot-Pluggable and Hot-Swappable Components" on page 13
- "Power Supply Redundancy" on page 13
- "Environmental Monitoring" on page 14
- "Support for RAID Storage Configurations" on page 15
- "Error Correction and Parity Checking" on page 15

Hot-Pluggable and Hot-Swappable Components

Sun SPARC Enterprise T5120 and T5220 server hardware is designed to support hot-plugging of the chassis-mounted hard drives, and hot-swapping of fan units, and power supplies. By using the proper software commands, you can install or remove these components while the system is running. Hot-swap and hot-plug technology significantly increases the system's serviceability and availability by providing the ability to replace hard drives, fan units, and power supplies without service disruption.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual
- Sun SPARC Enterprise T5120 and T5220 Servers Safety and Compliance Guide

Power Supply Redundancy

The Sun SPARC Enterprise T5120 and T5220 servers provide two hot-swappable power supplies, enabling the system to continue operating should one of the power supplies fail or if a power source fails.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

Environmental Monitoring

The Sun SPARC Enterprise T5120 and T5220 servers feature an environmental monitoring subsystem that protects the server and its components against:

- Extreme temperatures
- Lack of adequate airflow through the system
- Power supply failures
- Hardware faults

Temperature sensors are located throughout the system to monitor the ambient temperature of the system and internal components. The software and hardware ensure that the temperatures within the enclosure do not exceed predetermined safe operation ranges. If the temperature observed by a sensor falls below a low-temperature threshold or rises above a high-temperature threshold, the monitoring subsystem software lights the amber Service Required LEDs on the front and back panels. If the temperature condition persists and reaches a critical threshold, the system initiates a graceful system shutdown. In the event of a failure of the service processor, backup sensors protect the system from serious damage, by initiating a forced hardware shutdown. The Service Required LEDs remain lit after an automatic system shutdown to aid in problem diagnosis.

The power subsystem is monitored in a similar fashion by monitoring power supplies and reporting any fault in the front and rear panel LEDs.

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun Integrated Lights Out Manager (ILOM) software documentation (http://docs.sun.com/app/docs/prod/int.lights.mgr)
- Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun SPARC Enterprise T5120 and T5220 Servers
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

Support for RAID Storage Configurations

Using the on-board SAS controller, you can set up hardware RAID 1 (mirroring) and hardware RAID 0 (striping) configurations for any pair of internal hard drives, providing a high-performance solution for hard drive mirroring.

Additional RAID levels are supported by installing the StorageTek SAS HBA (internal PCIe card). This option requires a different set of internal cables.

By attaching one or more external storage devices to the Sun SPARC Enterprise T5120 and T5220 servers, you can use a redundant array of independent drives (RAID) software application such as Solstice DiskSuite or VERITAS Volume Manager¹ to configure system drive storage in a variety of different RAID levels.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)
- Documentation for your hardware

Error Correction and Parity Checking

The UltraSPARC T2 multicore processor provides parity protection on its internal cache memories, including tag parity and data parity on the D-cache and I-cache. The internal L2 cache has parity protection on the tags, and ECC protection on the data.

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

^{1.} Software RAID applications such as VERITAS Volume Manager are not included with this server. You must obtain and license them separately.

Fault Management and Predictive Self Healing

The Sun SPARC Enterprise T5120 and T5220 servers provide the latest fault management technologies. The Solaris 10 OS architecture provides a means for building and deploying systems and services capable of *Predictive Self-Healing*. Self-healing technology enables systems to accurately predict component failures and mitigate many serious problems before they actually occur. This technology is incorporated into both the hardware and software of the Sun SPARC Enterprise T5120 and T5220 servers.

At the heart of the Predictive Self-Healing capabilities is the Solaris Fault Manager, a new service that receives data relating to hardware and software errors, and automatically and silently diagnoses the underlying problem. Once a problem is diagnosed, a set of agents automatically responds by logging the event, and if necessary, takes the faulty component offline. By automatically diagnosing problems, business-critical applications and essential system services can continue uninterrupted in the event of software failures or major hardware component failures.

Related Information

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Administration Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual
- Solaris OS documentation (http://docs.sun.com/app/docs/prod/solaris)

Rackmountable Enclosure

The Sun SPARC Enterprise T5120 and T5220 servers use a space-saving 1U or 2U-high rackmountable enclosure that can be installed into a variety of industry standard racks.

- Sun SPARC Enterprise T5120 and T5220 Servers Product Notes
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Getting Started Guide (DC)
- Sun SPARC Enterprise T5120 and T5220 Servers Site Planning Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Installation Guide
- Sun SPARC Enterprise T5120 and T5220 Servers Service Manual

■ Sun SPARC Enterprise T5120 and T5220 Servers Safety and Compliance Guide			